

# **Introduction to Inventions and Creations**

Title of Work: Precise Seasoning Box

Field: Food

Source of inspiration for invention:

It comes from life-two dishes of my mother's previous meals were particularly salty. After careful questioning, my mother said that she didn't control the spoon when she put the salt, and she accidentally put too much, which seriously affected the taste of the dishes; When packing the seasoning, I found that the powdered seasonings were susceptible to lumps due to the poor sealing of the seasoning box, which affected the quality of the seasonings. Finally, I also found that my mother always needed both hands when putting the seasonings, which was really troublesome.

Improve life-so I want to design a spice box that can be operated with one hand, moisture-proof and precise.

Production process:

- (1) Look for suitable springs and other parts in Dad's toolbox;
- (2) Start drawing the 3D model diagram on the computer according to the size of the part I am looking for;

- (3) Use the school's 3d printer to print out the three-dimensional model diagram;
- (4) Install the parts into the three-dimensional model, and perform actual tests on the model.

The function of the work:

A pressing device is designed in the middle of the seasoning box, which is rebounded by a spring. With each pressing, a fixed seasoning will fall from the upper box into the quantitative bin to ensure the accuracy of each discharge. The bottom is made of elastic environmentally friendly plastic. Achieve the effect of no pressing and no leakage; the upper seasoning box lid adopts a fully sealed method, and it will not be opened unless new seasoning is added, ensuring the sealing effect of the seasoning; The condiment box is small and convenient, you can press it with one hand and use it anytime you want.

Advantages of the work:

- (1) From the shaking of the hand when placing the seasonings to controlling with a quantitative bin, the quantity of seasonings placed is more accurate;
- (2) One-handed pressing operation, you can put it aside when you use it up, you don't need to use both hands to open the lid as before, and then

use a spoon to scoop the seasoning, the operation becomes simpler and it is convenient to use;

(3) The top of the seasoning box adopts a closed structure, except when new seasoning is added, it will not open, and the seasoning with good airtightness will not lump;

Remarks:

(1) When using the seasoning box, avoid placing it in a place with water and oil stains, and avoid the discharge port at the lower end from being wetted, which will affect the discharge effect;

(2) This seasoning box will save a lot of time during use due to its simple operation, so there is no need to lower the fire when placing the seasoning, and it will not make the dishes over-ripe.

